

### **Abstract**

The present invention relates to a membrane-based nanofiltration process for separating sodium thiocyanate (NaSCN) from industrial solution containing impurities such as  $\beta$ -sulfopropionic acid,  $\beta$ -sulfopropionitrile, sodium sulfate and salts of iron and calcium in a single step to obtain a colorless aqueous solution for spinning of acrylic fibre in textile industry.